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2 We claim:

3 1. A system for providing continuous, expert network health care services from a remote
4 location comprising:
5 a plurality of health care locations;
6 at least one remote command center for managing healthcare at said plurality of health care
7 locations; and at least one network;
8 wherein said plurality of health care locations are electronically connected to said at least one
9 remote command center by the network, and wherein said at least one remote command center
10 provides intensivivist monitoring of the plurality of health care locations 24 hours per day, seven
11 days per week.

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13 2. The system for providing continuous, expert network health care services from a remote
14 location of claim 1 wherein said remote command center further comprises a computerized
15 patient care management system for monitoring and treating individual patients at any of said
16 plurality of healthcare locations.

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18 3. The system for providing continuous, expert network health care services from a remote
19 location of claim 2 wherein said computerized patient care management system further
20 comprises a data server/data warehouse for storing and analyzing data from the at least one
21 remote command center.

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4. The system for providing continuous, expert network health care services from a remote location of claim 1 wherein each of the plurality of health care locations further comprises patient monitoring equipment electronically connected to the at least one remote command center over the network.

5. The system for providing continuous, expert network health care services from a remote location of claim 4 wherein each health care location further comprises a nurses' station electronically connected to said monitoring equipment and to the at least one remote command center over the network.

6. The system for providing continuous, expert network health care services from a remote location of claim 1 wherein the healthcare locations comprise intensive care units (ICU's).

7. The system for providing continuous, expert network health care services from a remote location of claim 2 wherein said computerized patient care management system further comprises a relational database for storing a plurality of decision support algorithms and for prompting intensivists to provide care to patients based upon the any of the decision support algorithms.

8. The system for providing continuous, expert network health care services from a remote location of claim 7 wherein said algorithms are selected from the group consisting of algorithms for treating:

1 Acalculous Cholecystitis, Acute Pancreatitis Algorithm, Acute Renal Failure-Diagnosis, Acute
 2 Renal Failure-Management & Treatment, Adrenal Insufficiency, Agitation and Anxiety,
 3 Depression & Withdrawal, Aminoglycoside Dosing and Therapeutic Monitoring, an
 4 Amphotericin-B Treatment Guidelines, Analgesia, Antibiotic Classification & Costs,
 5 Antibiograms Algorithm, Antibiotic associated Colitis Algorithm, ARDS: Hemodynamic
 6 Management, ARDS: Steroid Use, ARDS: Ventilator Strategies, Asthma, Bleeding Patient,
 7 Bloodstream Infections, Blunt Cardiac Injury, Bradycardias, Brain Death, Bronchodilator
 8 Use in Ventilator Patients, Bronchoscopy & Thoracentesis Guidelines, Candiduria, Cardiogenic
 9 Shock, CardioPulmonary Resuscitation Guideline, Catheter Related Septicemia, a Catheter
 10 Replacement Strategies, Cervical Cord Injury, Congestive Heart Failure, Copd Exacerbation
 11 & Treatment, CXR (Indications), Dealing with Difficult patients and families, Diabetic
 12 Ketoacidosis, Dialysis, Diuretic Use, Drug Changes with Renal Dysfunction, Emergency
 13 Cardiac Pacing, Endocarditis Diagnosis and Treatment, Endocarditis Prophylaxis, End of Life
 14 Decisions, Endotracheal Tubes & Tracheotomy, Ethical Guidelines, Febrile Neutropenia, FUO,
 15 Fluid Resuscitation, Guillain-Barre Syndrome, Heparin, Heparin-Induced Thrombocytopenia,
 16 Hepatic Encephalopathy, Hepatic Failure, HIV + Patent Infections, Hypercalcemia Diagnosis
 17 and Treatment, Hypercalcemia Insulin Treatment, Hyperkalemia : Etiology & Treatment,
 18 Hyponatremia : Etiology & Treatment, Hypertensive Crisis, Hypokalemia : Etiology &
 19 Treatment, Hyponatremia : Etiology & Treatment, Hypothermia, Identification of Cervical
 20 Cord Injury, Implantable Cardio-defibrillator, Intra-Aortic Balloon Device, Intracerebral
 21 Hemorrhage, Latex Allergy, Magnesium Administration, Management of Hypotension,
 22 Inotropes, Management of Patients with Ascites, Empiric Meningitis, Meningitis, a Myasthenia

1 Gravis, Myocardial Infarction, Myocardial Infarction with left bundle branch block,
 2 Necrotizing Soft Tissue Infections, Neuromuscular Blockers, Neuromuscular Complications of
 3 Critical Illness, Non-Infectious Causes of Fever, Non-Traumatic Coma, Noninvasive Modes of
 4 Ventilation, Nutritional Management, Obstetrical Complication, Oliguria, Oliguria, Open
 5 Fractures, Open Fractures, Ophthalmic Infections, Organ Procurement Guidelines, PA Catheter
 6 Guideline and Troubleshooting, Pancreatitis, Penetrating Abdominal Injury, Penetrating Chest
 7 Injury, Penicillin Allergy, Penicillin Allergy, Permanent Pacemaker and Indications,
 8 Pneumonia Community Acquired, Pneumonia Hospital Acquired, Post-Op Bleeding, Post-Op
 9 Hypertension, Post-Op Hypertension , Post-Op Management of Abdominal, Post-Op
 10 Management of Carotid, Post-Op Management of Open Heart, Post-Op Management of
 11 Thoracotomy, Post-Op Myocardial Ischemia (Non-Cardiac Arrhythmias after Cardiac Surgery),
 12 Post-Op Power Weaning, Pressure Ulcers, Pulmonary Embolism Diagnosis, Pulmonary
 13 Embolism Treatment, Respiratory Isolation, Sedation, Seizure, Status Epilepticus, Stroke,
 14 Sub-Arachnoid Hemorrhage, Supra-Ventricular Tachyarrhythmia, Supra-Ventricular
 15 Tachycardia, Wide Complex QRS Tachycardia, Therapeutic Drug Monitoring,
 16 Thrombocytopenia, Thrombolytic Therapy, Transfusion Guidelines, Traumatic Brain Injury,
 17 Assessment of Sedation, Sedation, Septic Shock, Bolus Sliding Scale Midazolam, Short Term
 18 Sedation Process, Sinusitis, SIRS, Spinal Cord Injury, Steroid Replacement Strategy, Thyroid
 19 Disease, Transplant Infection Prophylaxis, Transplant Related Infections, Treatment of Airway
 20 Obstruction, Unknown Poisoning, Unstable Angina, Upper GI Bleeding Stress Prophylaxis,
 21 Vancomycin, Upper GI Bleeding Non-Variceal, Upper GI Bleeding Variceal , Use of
 22 Hematopoietic Growth Factors, Ventialtor Weaning, Ventialtor Weaning Protocol, Venous

1 Thrombosis Diagnostic and Treatment, Venous Thromboembolism Prophylaxis, Ventricular
2 Arrhythmia, Warfarin, Warfarin Dosing, and Wound Healing Strategies.

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✓ 4 ~~10~~ 9 The system for providing continuous, expert network health care services from a remote
5 location of claim 2 wherein said computerized patient care management system further
6 comprises order writing software for providing knowledge-based recommendations and
7 prescriptions for medication based upon the clinical data.

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9 ~~11~~ 10 The system for providing continuous, expert network health care services from a remote
10 location of claim 2 wherein said computerized patient care management system further
11 comprises knowledge-based vital sign/hemodynamic algorithms that prompt said intensivist to
12 engage in early intervention.

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14 ~~12~~ 11 A method for providing continuous expert critical care comprising:
15 monitoring patients in a plurality of ICU's;
16 communicating the information from the patient monitoring to at least one command center over
17 a first network
18 receiving and analyzing the information from the patient monitoring at the command center over
19 the first network; and
20 providing guidance from the command center to the plurality of ICU's to take actions regarding
21 patient-care.

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1 13. The method for providing continuous expert critical care of claim 12 wherein the
 2 providing guidance from the command center further comprises an intensivist reviewing decision
 3 support algorithms that provide guidance for treating a plurality of critical care conditions.

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5 The method for providing continuous expert critical care of claim 13 wherein the
 6 decision support algorithms are taken from the group consisting of algorithms for treating:
 7 Acalculous Cholecystitis, Acute Pancreatitis Algorithm, Acute Renal Failure-Diagnosis, Acute
 8 Renal Failure-Management & Treatment, Adrenal Insufficiency, Agitation and Anxiety,
 9 Depression & Withdrawal, Aminoglycoside Dosing and Therapeutic Monitoring, an
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 17 & Treatment, CXR (Indications), Dealing with Difficult patients and families, Diabetic
 18 Ketoacidosis, Dialysis, Diuretic Use, Drug Changes with Renal Dysfunction, Emergency
 19 Cardiac Pacing, Endocarditis Diagnosis and Treatment, Endocarditis Prophylaxis, End of Life
 20 Decisions, Endotracheal Tubes & Tracheotomy, Ethical Guidelines, Febrile Neutropenia, FUO,
 21 Fluid Resusditation, Guillain-Barre Syndrome, Heparin, Heparin-Induced Thrombocytopenia,
 22 Hepatic Encephalopathy, Hepatic Failure, HIV + Patent Infections, Hypercalcemia Diagnosis

1 and Treatment, Hypercalcemia Insulin Treatment, Hyperkalemia : Etiology & Treatment,
 2 Hyponatremia : Etiology & Treatment, Hypertensive Crisis, Hypokalemia : Etiology &
 3 Treatment, Hyponatremia : Etiology & Treatment, Hypothermia, Identification of Cervical
 4 Cord Injury, Implantable Cardio-defibrillator, Intra-Aortic Balloon Device, Intracerebral
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 6 Inotropes , Management of Patients with Ascites, Empiric Meningitis, Meningitis,a Myasthenia
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 8 Necrotizing Soft Tissue Infections, Neuromuscular Blockers, Neuromuscular Complications of
 9 Critical Illness, Non-Infectious Causes of Fever, Non-Traumatic Coma, Noninvasive Modes of
 10 Ventilation, Nutritional Management, Obstetrical Complication, Oliguria, Oliguria, Open
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 13 Injury, Penicillin Allergy, Penicillin Allergy, Permanent Pacemaker and Indications,
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 15 Hypertension, Post-Op Hypertension , Post-Op Management of Abdominal, Post-Op
 16 Management of Carotid, Post-Op Management of Open Heart, Post-Op Management of
 17 Thoracotomy, Post-Op Myocardial Ischemia (Non-Cardiac Arrhythmias after Cardiac Surgery),
 18 Post-Op Power Weaning, Pressure Ulcers, Pulmonary Embolism Diagnosis, Pulmonary
 19 Embolism Treatment, Respiratory Isolation, Sedation, Seizure, Status Epilepticus, Stroke,
 20 Sub-Arachnoid Hemorrhage, Supra-Ventricular Tachyarrhythmia, Supra-Ventricular
 21 Tachycardia, Wide Complex QRS Tachycardia, Therapeutic Drug Monitoring,
 22 Thrombocytopenia, Thrombolytic Therapy, Transfusion Guidelines, Traumatic Brain Injury,

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2 Sedation Process, Sinusitis, SIRS, Spinal Cord Injury, Steroid Replacement Strategy, Thyroid
3 Disease, Transplant Infection Prophylaxis, Transplant Related Infections, Treatment of Airway
4 Obstruction, Unknown Poisoning, Unstable Angina, Upper GI Bleeding Stress Prophylaxis,
5 Vancomycin, Upper GI Bleeding Non-Variceal, Upper GI Bleeding Variceal, Use of
6 Hematopoietic Growth Factors, Ventilator Weaning, Ventilator Weaning Protocol, Venous
7 Thrombosis Diagnostic and Treatment, Venous Thromboembolism Prophylaxis, Ventricular
8 Arrhythmia, Warfarin, Warfarin Dosing, and Wound Healing Strategies.

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10 14. The method for providing continuous expert critical care of claim 13 further comprising a
11 data server/ data warehouse storing and analyzing patient data from the at least one command
12 center and providing analysis in results over a second network to the at least one command
13 center.

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